



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

**Gano #6-17**

**17-25s-36w Kearny,KS**

Start Date: 2017.06.14 @ 06:50:00

End Date: 2017.06.14 @ 13:49:35

Job Ticket #: 59464                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.22 @ 14:12:40



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59464

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:46:25

Time Test Ended: 13:49:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 3636.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 3040.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 473.41 psig @ 3657.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.14

End Date:

2017.06.14

Last Calib.:

2017.06.14

Start Time: 06:50:02

End Time:

13:49:34

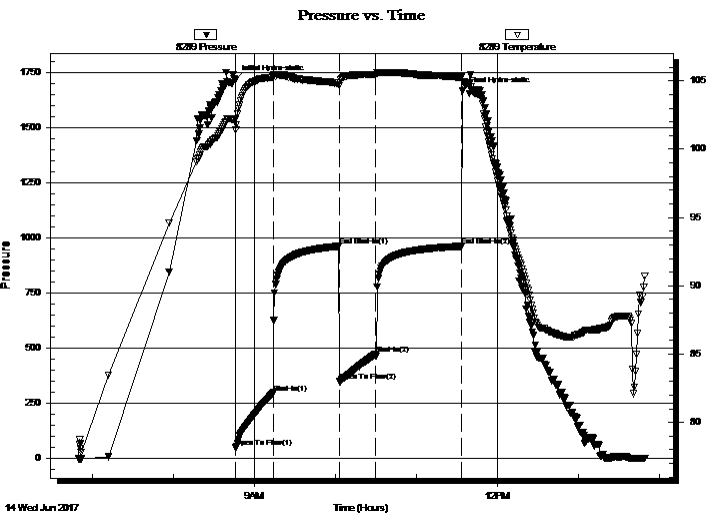
Time On Btm:

2017.06.14 @ 08:46:10

Time Off Btm:

2017.06.14 @ 11:33:54

**TEST COMMENT:** IF: BOB 1 1/2 min, strong steady blow  
IS: No blow back  
FF: BOB 5 min., strong steady blow  
FS: No blow back



## PRESSURE SUMMARY

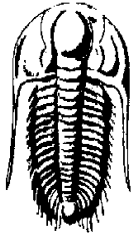
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.56	102.19	Initial Hydro-static
1	49.87	101.44	Open To Flow (1)
28	297.18	105.27	Shut-In(1)
77	961.14	104.83	End Shut-In(1)
77	348.28	104.65	Open To Flow (2)
104	473.41	105.47	Shut-In(2)
168	960.95	105.27	End Shut-In(2)
168	1664.15	105.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
930.00	gassy water 2%G,98%W	11.38

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

American Warrior, Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**17-25s-36w Kearny, KS**  
**Gano #6-17**  
Job Ticket: 59464      **DST#: 1**  
Test Start: 2017.06.14 @ 06:50:00

### GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:46:25  
Time Test Ended: 13:49:35

Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 75

**Interval: 3636.00 ft (KB) To 3660.00 ft (KB) (TVD)**  
Total Depth: 3660.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3040.00 ft (KB)  
3029.00 ft (CF)  
KB to GR/CF: 11.00 ft

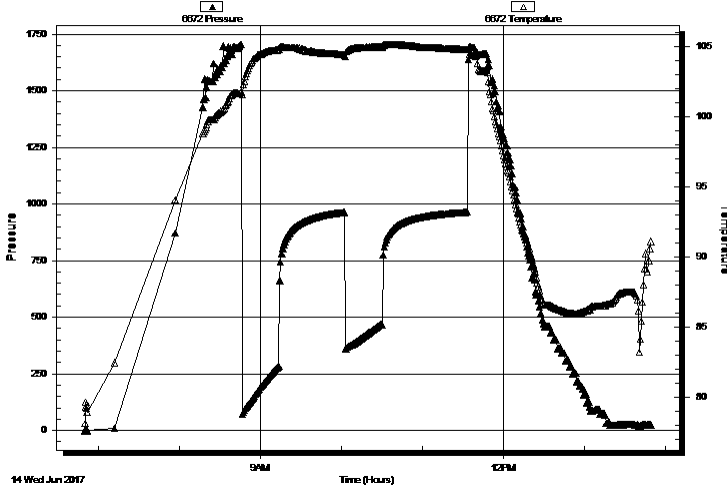
### Serial #: 6672 Outside

Press@RunDepth:                      psig @      3657.00 ft (KB)  
Start Date:                              2017.06.14      End Date:                              2017.06.14  
Start Time:                              06:50:02      End Time:                              13:49:04

Capacity:                                  8000.00 psig  
Last Calib.:                              1899.12.30  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: BOB 1 1/2 min, strong steady blow  
IS: No blow back  
FF: BOB 5 min., strong steady blow  
FS: No blow back

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
930.00	gassy water 2%G,98%W	11.38

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59464

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

## Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3636.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3609.00	
Shut In Tool	5.00			3614.00	
Hydraulic tool	5.00			3619.00	
Jars	5.00			3624.00	
Safety Joint	3.00			3627.00	
Packer	5.00			3632.00	28.00 Bottom Of Top Packer
Packer	4.00			3636.00	
Stubb	1.00			3637.00	
Perforations	1.00			3638.00	
Perforations	19.00			3657.00	
Recorder	0.00	8289	Inside	3657.00	
Recorder	0.00	6672	Outside	3657.00	
Bullnose	3.00			3660.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59464

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 30.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
930.00	gassy w ater 2%G,98%W	11.378

Total Length: 930.00 ft      Total Volume: 11.378 bbl

Num Fluid Samples: 0

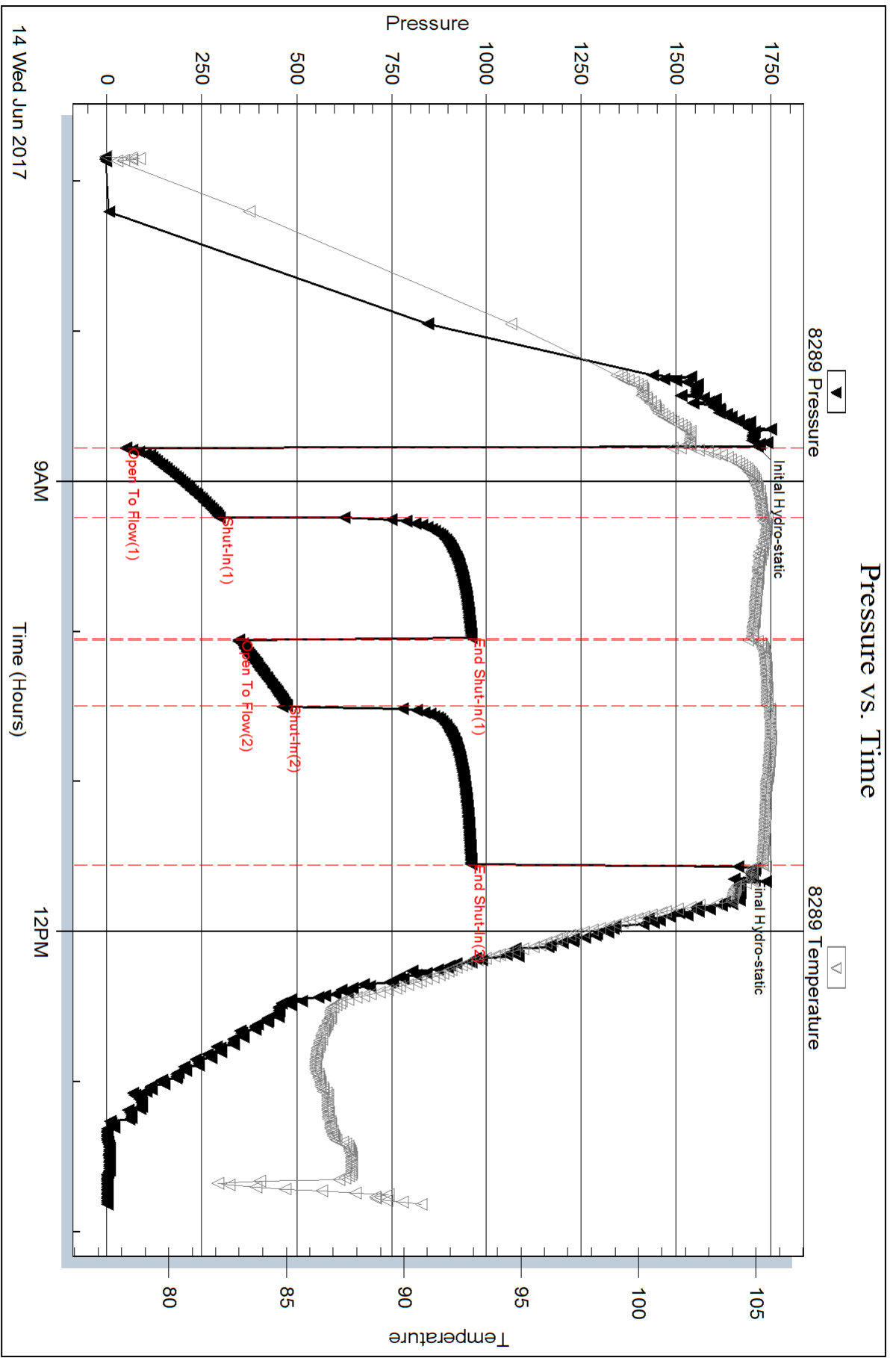
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.124@86F=50000ppm







## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

**Gano #6-17**

**17-25s-36w Kearny,KS**

Start Date: 2017.06.15 @ 07:03:00

End Date: 2017.06.15 @ 13:44:09

Job Ticket #: 59465                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.22 @ 14:12:01





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59465

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

## GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:40

Time Test Ended: 13:44:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 3782.00 ft (KB) To 3812.00 ft (KB) (TVD)**

Reference Elevations: 3040.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 96.43 psig @ 3784.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.15

End Date:

2017.06.15

Last Calib.:

2017.06.15

Start Time: 07:03:02

End Time:

13:44:10

Time On Btm:

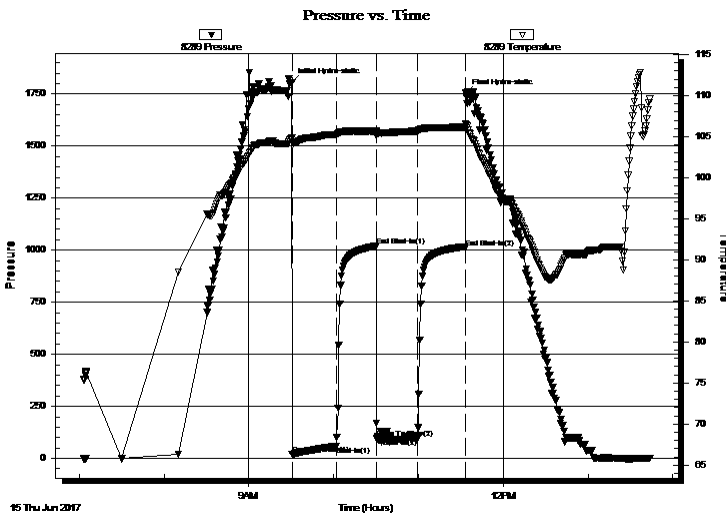
2017.06.15 @ 09:30:20

Time Off Btm:

2017.06.15 @ 11:33:09

**TEST COMMENT:** IF: 1 1/2" in 30 min., weak building blow  
IS: No blow back  
FF: 1/2" in 30 min., weak surface blow  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.50	104.81	Initial Hydro-static
1	18.29	103.89	Open To Flow (1)
32	59.26	105.25	Shut-In(1)
60	1019.28	105.69	End Shut-In(1)
61	96.47	105.34	Open To Flow (2)
89	96.43	105.68	Shut-In(2)
123	1012.29	106.16	End Shut-In(2)
123	1753.89	106.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



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# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59465

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

## GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:40

Time Test Ended: 13:44:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 3782.00 ft (KB) To 3812.00 ft (KB) (TVD)**

Reference Elevations: 3040.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6663 Below (Straddle)**

Press@RunDepth: psig @ 3827.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.15

End Date:

2017.06.15

Last Calib.:

1899.12.30

Start Time: 07:03:02

End Time:

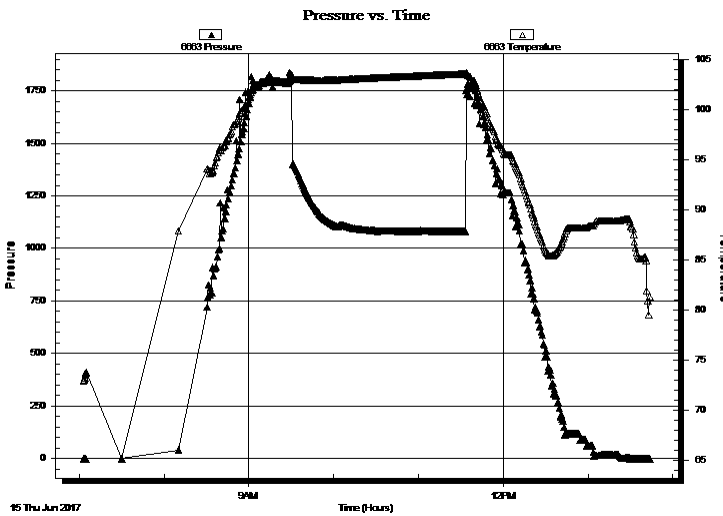
13:43:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1 1/2" in 30 min., weak building blow  
IS: No blow back  
FF: 1/2" in 30 min., weak surface blow  
FS: No blow back

## PRESSURE SUMMARY



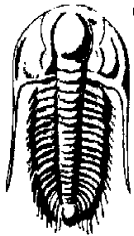
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



TRILOBITE  
TESTING, INC.

# DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399  
Garden City, KS 67846

Gano #6-17

Job Ticket: 59465

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

## GENERAL INFORMATION:

Formation: LKC D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:40

Time Test Ended: 13:44:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3782.00 ft (KB) To 3812.00 ft (KB) (TVD)

Total Depth: 3830.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3040.00 ft (KB)

3029.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 3784.00 ft (KB)

Start Date: 2017.06.15

End Date: 2017.06.15

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Start Time: 07:03:02

End Time: 13:44:15

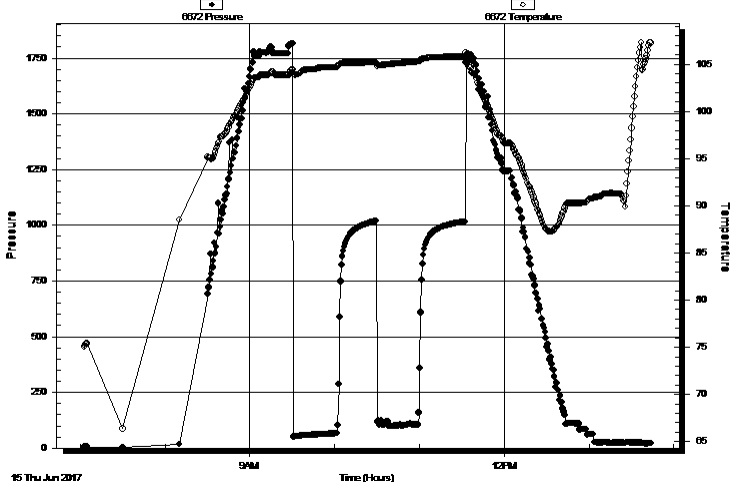
Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1 1/2" in 30 min., weak building blow  
IS: No blow back  
FF: 1/2" in 30 min., weak surface blow  
FS: No blow back

## PRESSURE SUMMARY

Pressure vs. Time



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59465

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

## Tool Information

Drill Pipe:	Length: 3576.00 ft	Diameter: 3.80 inches	Volume: 50.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3782.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	3830.00 ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3755.00	
Shut In Tool	5.00			3760.00	
Hydraulic tool	5.00			3765.00	
Jars	5.00			3770.00	
Safety Joint	3.00			3773.00	
Packer	5.00			3778.00	28.00 Bottom Of Top Packer
Packer	4.00			3782.00	
Stubb	1.00			3783.00	
Perforations	1.00			3784.00	
Recorder	0.00	8289	Inside	3784.00	
Recorder	0.00	6672	Outside	3784.00	
Perforations	23.00			3807.00	
Blank Off Sub	1.00			3808.00	
Packer - Shale	4.00			3812.00	
Stubb	1.00			3813.00	
Perforations	14.00			3827.00	
Recorder	0.00	6663	Below	3827.00	
Bullnose	3.00			3830.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59465

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1350.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
188.00	GWMCO 5%G,20%W,30%M,45%O	0.970

Total Length: 188.00 ft      Total Volume: 0.970 bbl

Num Fluid Samples: 0

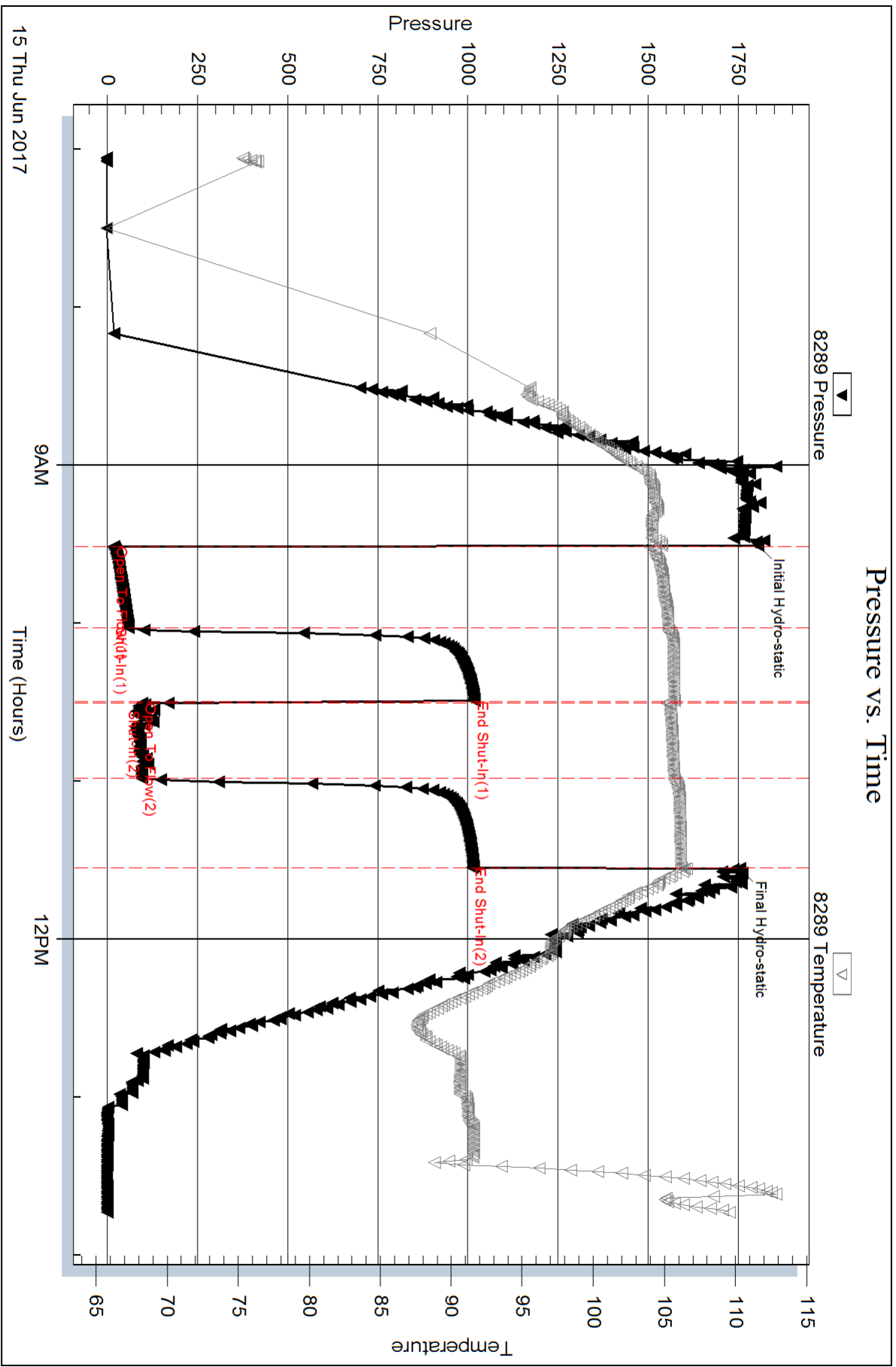
Num Gas Bombs: 0

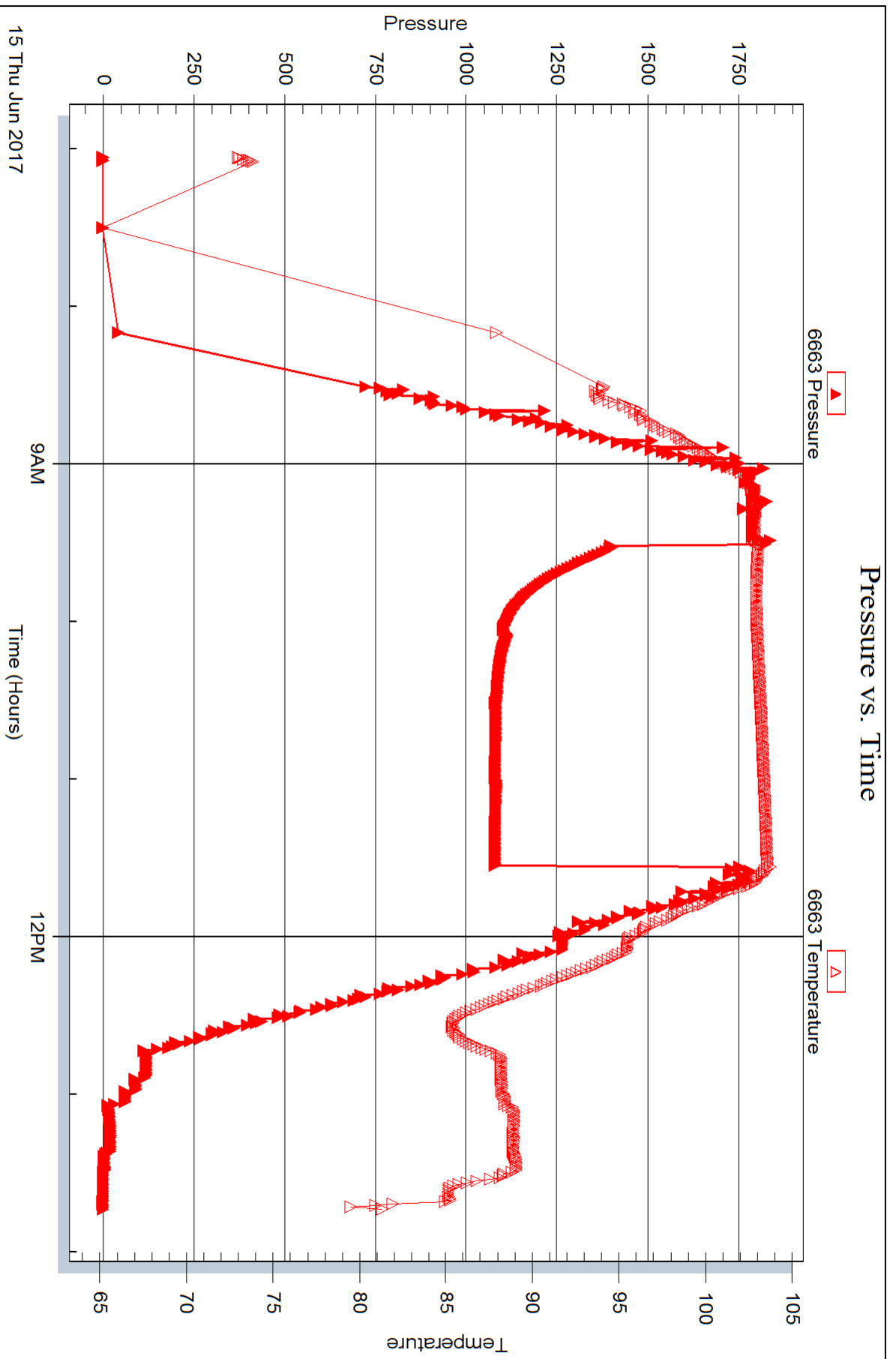
Serial #:

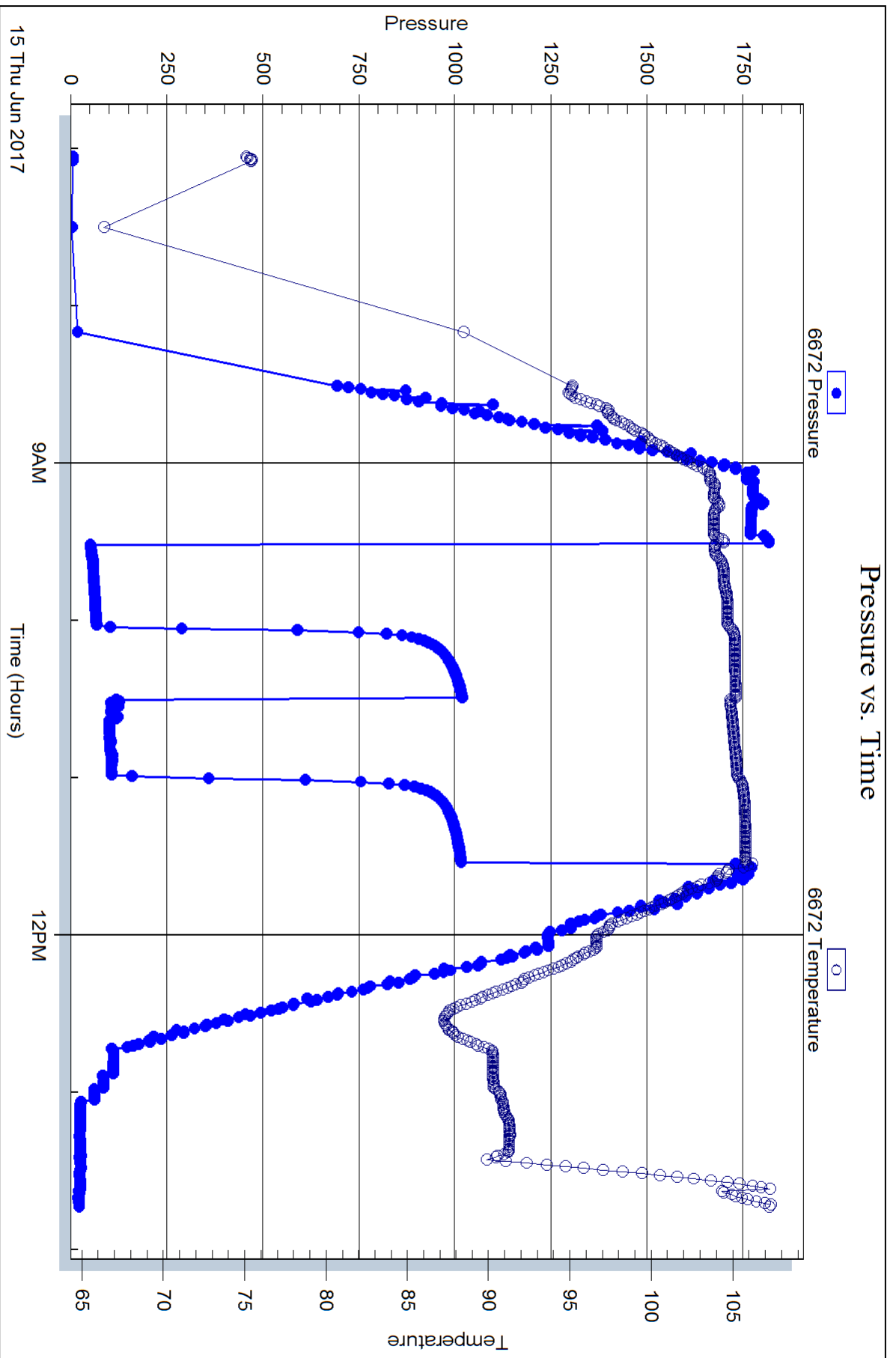
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.213@95F=24,000ppm











## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

**Gano #6-17**

**17-25s-36w Kearny,KS**

Start Date: 2017.06.16 @ 18:12:00

End Date: 2017.06.17 @ 01:48:09

Job Ticket #: 59466                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.22 @ 14:11:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59466

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:50

Time Test Ended: 01:48:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4260.00 ft (KB) To 4288.00 ft (KB) (TVD)**

Reference Elevations: 3040.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 93.10 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.16

End Date:

2017.06.17

Last Calib.:

2017.06.16

Start Time:

18:12:02

End Time:

01:48:10

Time On Btm:

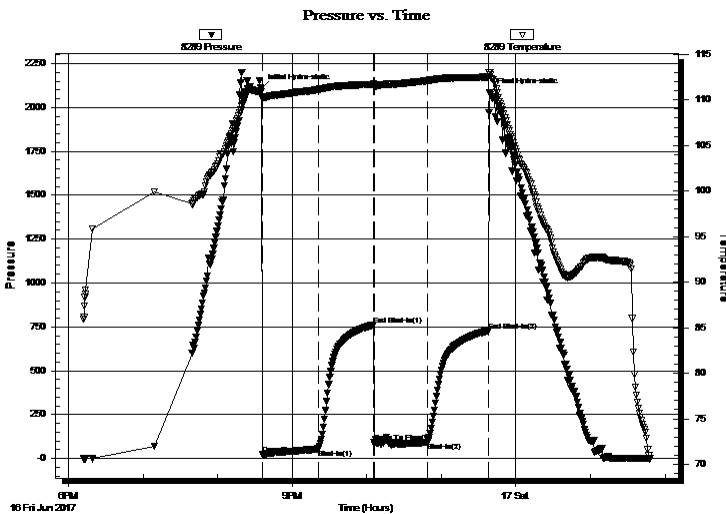
2017.06.16 @ 20:35:20

Time Off Btm:

2017.06.16 @ 23:39:00

**TEST COMMENT:** IF: 4" in 45 min., fair building blow  
IS: No blow back  
FF: 1/2" in 45 min., weak surface blow  
FS: No blow back

## PRESSURE SUMMARY



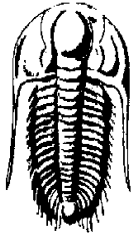
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.07	110.87	Initial Hydro-static
1	21.37	110.09	Open To Flow (1)
46	54.55	111.16	Shut-In(1)
90	760.90	111.72	End Shut-In(1)
91	89.51	111.44	Open To Flow (2)
134	93.10	112.11	Shut-In(2)
183	728.41	112.50	End Shut-In(2)
184	2082.67	113.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
183.00	GOCMW 5%G,20%O,25%W,50%M	0.90
0.00	62' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

**17-25s-36w Kearny, KS**

**Gano #6-17**

Job Ticket: 59466

**DST#: 3**

Test Start: 2017.06.16 @ 18:12:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:50

Time Test Ended: 01:48:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4260.00 ft (KB) To 4288.00 ft (KB) (TVD)**

Reference Elevations: 3040.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6672 Outside**

Press@RunDepth: psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.16

End Date:

2017.06.17

Last Calib.:

1899.12.30

Start Time: 18:12:02

End Time:

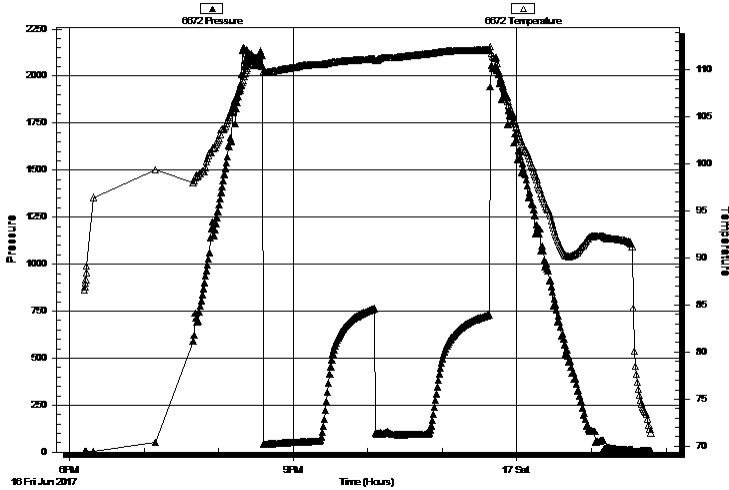
01:48:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 4" in 45 min., fair building blow  
IS: No blow back  
FF: 1/2" in 45 min., weak surface blow  
FS: No blow back

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
183.00	GOCMW 5%G,20%O,25%W,50%M	0.90
0.00	62' GIP	0.00

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59466

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

## Tool Information

Drill Pipe:	Length: 4054.00 ft	Diameter: 3.80 inches	Volume: 56.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4260.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	28.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Perforations	1.00			4262.00	
Perforations	23.00			4285.00	
Recorder	0.00	8289	Inside	4285.00	
Recorder	0.00	6672	Outside	4285.00	
Bullnose	3.00			4288.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59466

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

12000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1350.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	GOCMW 5%G,20%O,25%W,50%M	0.900
0.00	62' GIP	0.000

Total Length: 183.00 ft      Total Volume: 0.900 bbl

Num Fluid Samples: 0

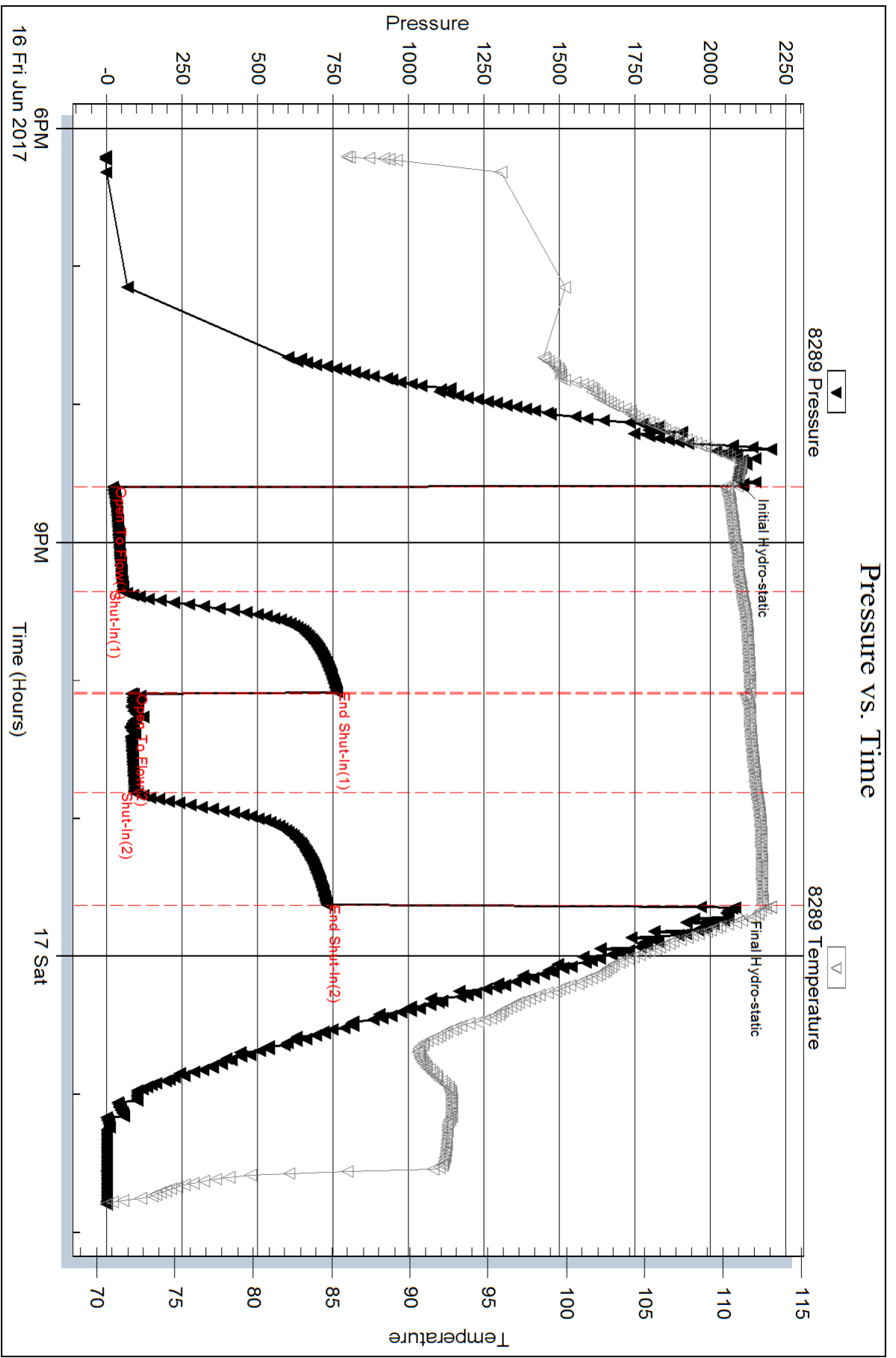
Num Gas Bombs: 0

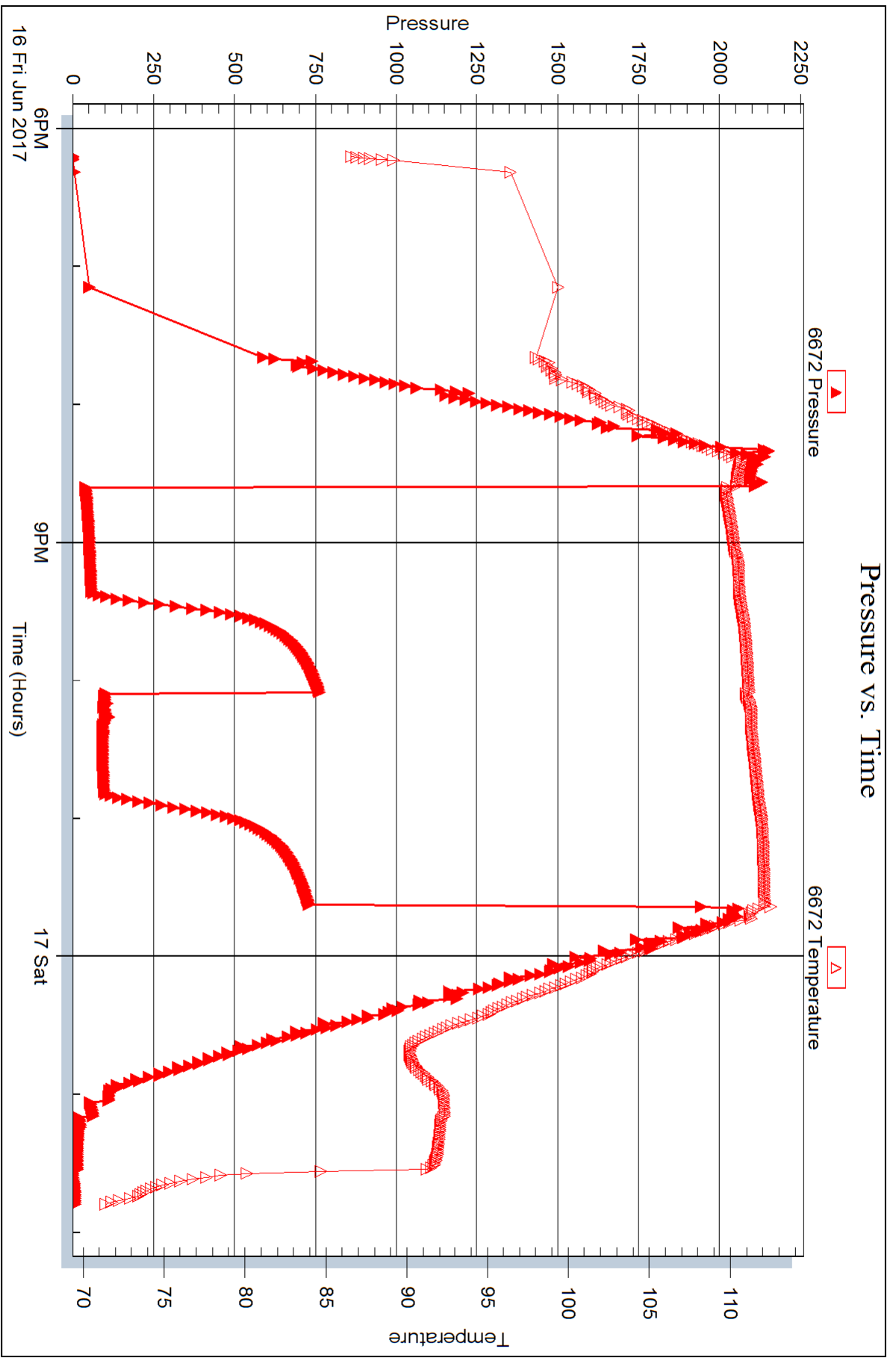
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.468@83F=12000ppm







## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

**Gano #6-17**

**17-25s-36w Kearny,KS**

Start Date: 2017.06.19 @ 15:24:00

End Date: 2017.06.19 @ 22:26:39

Job Ticket #: 59467                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.22 @ 14:10:43





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny, KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59467

**DST#: 4**

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

## GENERAL INFORMATION:

Formation: **St. Gen - St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:25:50  
 Time Test Ended: 22:26:39  
 Interval: **4815.00 ft (KB) To 4965.00 ft (KB) (TVD)**  
 Total Depth: 4965.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 75  
 Reference Elevations: 3040.00 ft (KB)  
 3029.00 ft (CF)  
 KB to GR/CF: 11.00 ft

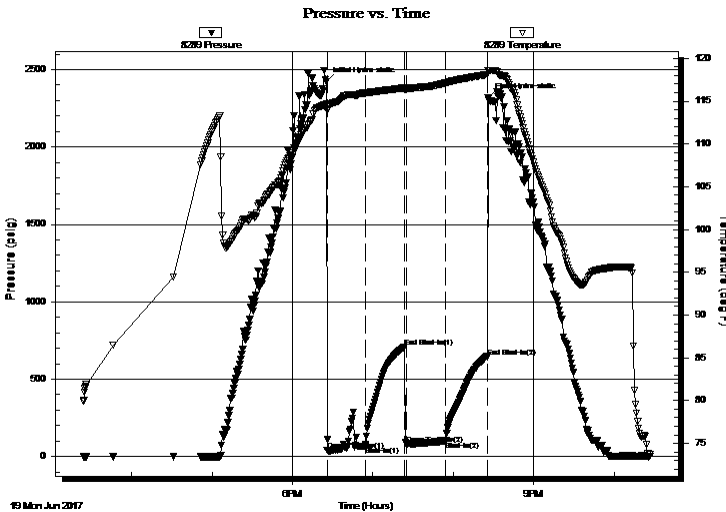
## Serial #: 8289

Inside

Press@RunDepth: 99.03 psig @ 4834.00 ft (KB)  
 Start Date: 2017.06.19 End Date: 2017.06.19  
 Start Time: 15:24:02 End Time: 22:26:40  
 Capacity: 8000.00 psig  
 Last Calib.: 2017.06.19  
 Time On Btm: 2017.06.19 @ 18:25:10  
 Time Off Btm: 2017.06.19 @ 20:26:09

TEST COMMENT: IF: 2" in 30 min., weak surface blow  
 IS: No blow back  
 FF: Weak surface blow  
 FS: No blow back

## PRESSURE SUMMARY



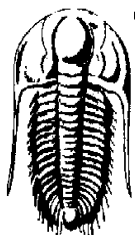
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.90	114.64	Initial Hydro-static
1	39.28	113.89	Open To Flow (1)
29	66.40	115.93	Shut-In(1)
59	710.26	116.54	End Shut-In(1)
60	81.87	116.42	Open To Flow (2)
89	99.03	117.10	Shut-In(2)
120	645.19	118.08	End Shut-In(2)
121	2316.07	118.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
183.00	WM w / oil spots 40%W,60%M	0.90

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59467

**DST#: 4**

ATTN: Luke Thompson

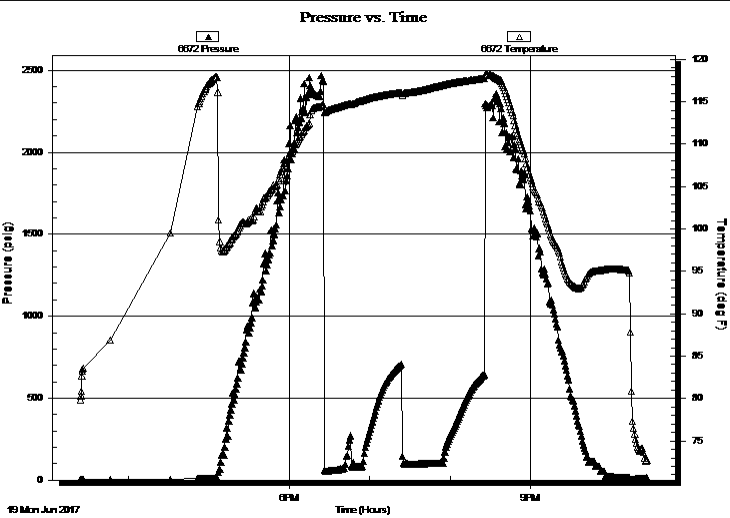
Test Start: 2017.06.19 @ 15:24:00

## GENERAL INFORMATION:

Formation:	<b>St. Gen - St. Louis</b>	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock: ft (KB)	Tester:	Chris Hagman
Time Tool Opened:	18:25:50	Unit No:	75
Time Test Ended:	22:26:39	Reference Elevations:	3040.00 ft (KB)
<b>Interval:</b>	<b>4815.00 ft (KB) To 4965.00 ft (KB) (TVD)</b>		3029.00 ft (CF)
Total Depth:	4965.00 ft (KB) (TVD)	KB to GR/CF:	11.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Good

<b>Serial #: 6672</b>	<b>Outside</b>	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 4834.00 ft (KB)	Last Calib.:	1899.12.30
Start Date:	2017.06.19	End Date:	2017.06.19
Start Time:	15:24:02	End Time:	22:27:00
		Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** IF: 2" in 30 min., weak surface blow  
 IS: No blow back  
 FF: Weak surface blow  
 FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
183.00	WM w / oil spots 40%W,60%M	0.90

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59467

**DST#: 4**

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

## Tool Information

Drill Pipe:	Length: 4624.00 ft	Diameter: 3.80 inches	Volume: 64.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4815.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	150.00 ft			
Tool Length:	178.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4788.00	
Shut In Tool	5.00			4793.00	
Hydraulic tool	5.00			4798.00	
Jars	5.00			4803.00	
Safety Joint	3.00			4806.00	
Packer	5.00			4811.00	28.00 Bottom Of Top Packer
Packer	4.00			4815.00	
Stubb	1.00			4816.00	
Perforations	1.00			4817.00	
Perforations	17.00			4834.00	
Recorder	0.00	8289	Inside	4834.00	
Recorder	0.00	6672	Outside	4834.00	
Change Over Sub	1.00			4835.00	
Drill Pipe	126.00			4961.00	
Change Over Sub	1.00			4962.00	
Bullnose	3.00			4965.00	150.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>178.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**17-25s-36w Kearny,KS**

PO Box 399  
Garden City, KS 67846

**Gano #6-17**

Job Ticket: 59467

**DST#: 4**

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	WM w / oil spots 40%W,60%M	0.900

Total Length: 183.00 ft      Total Volume: 0.900 bbl

Num Fluid Samples: 0

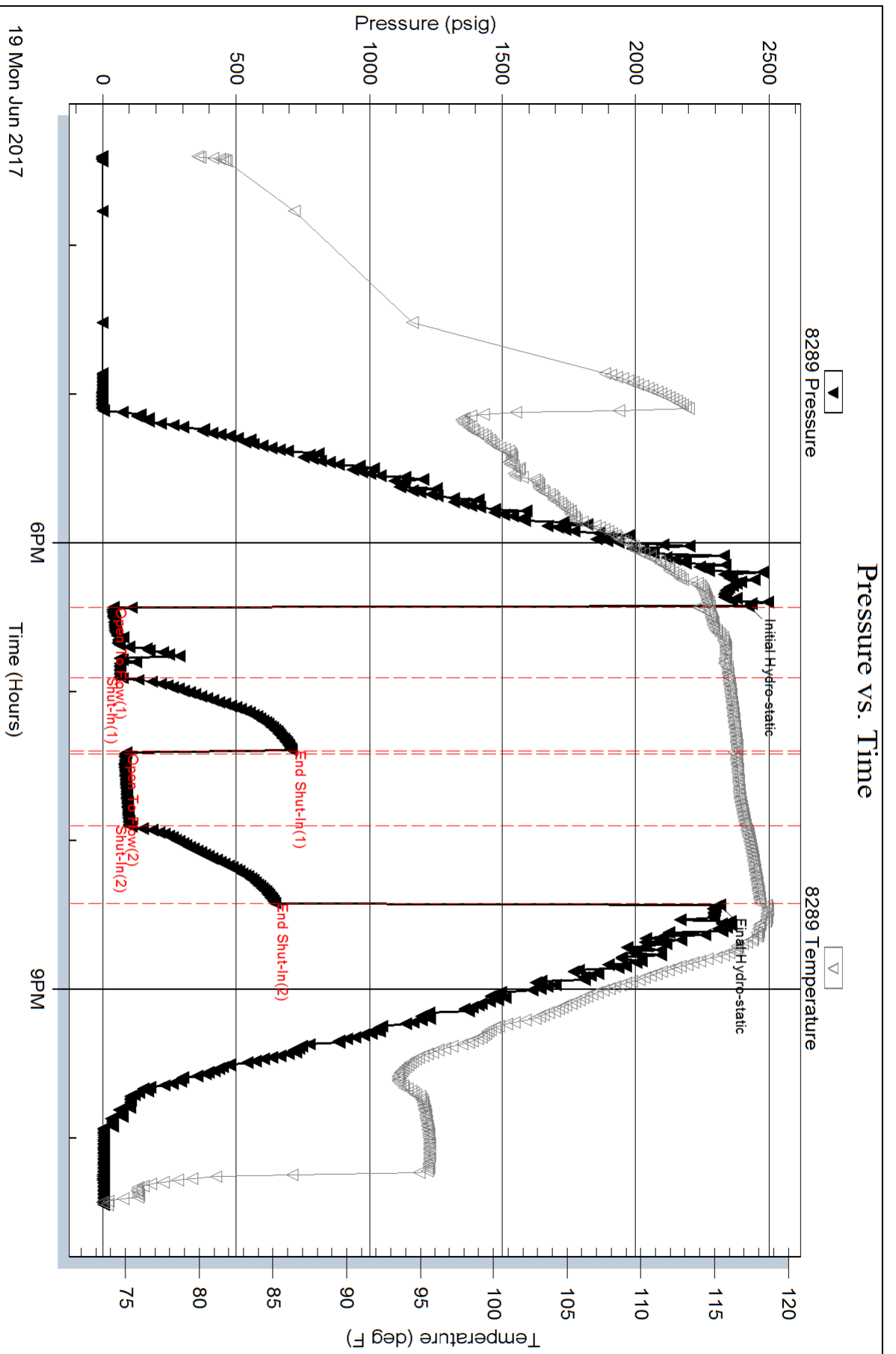
Num Gas Bombs: 0

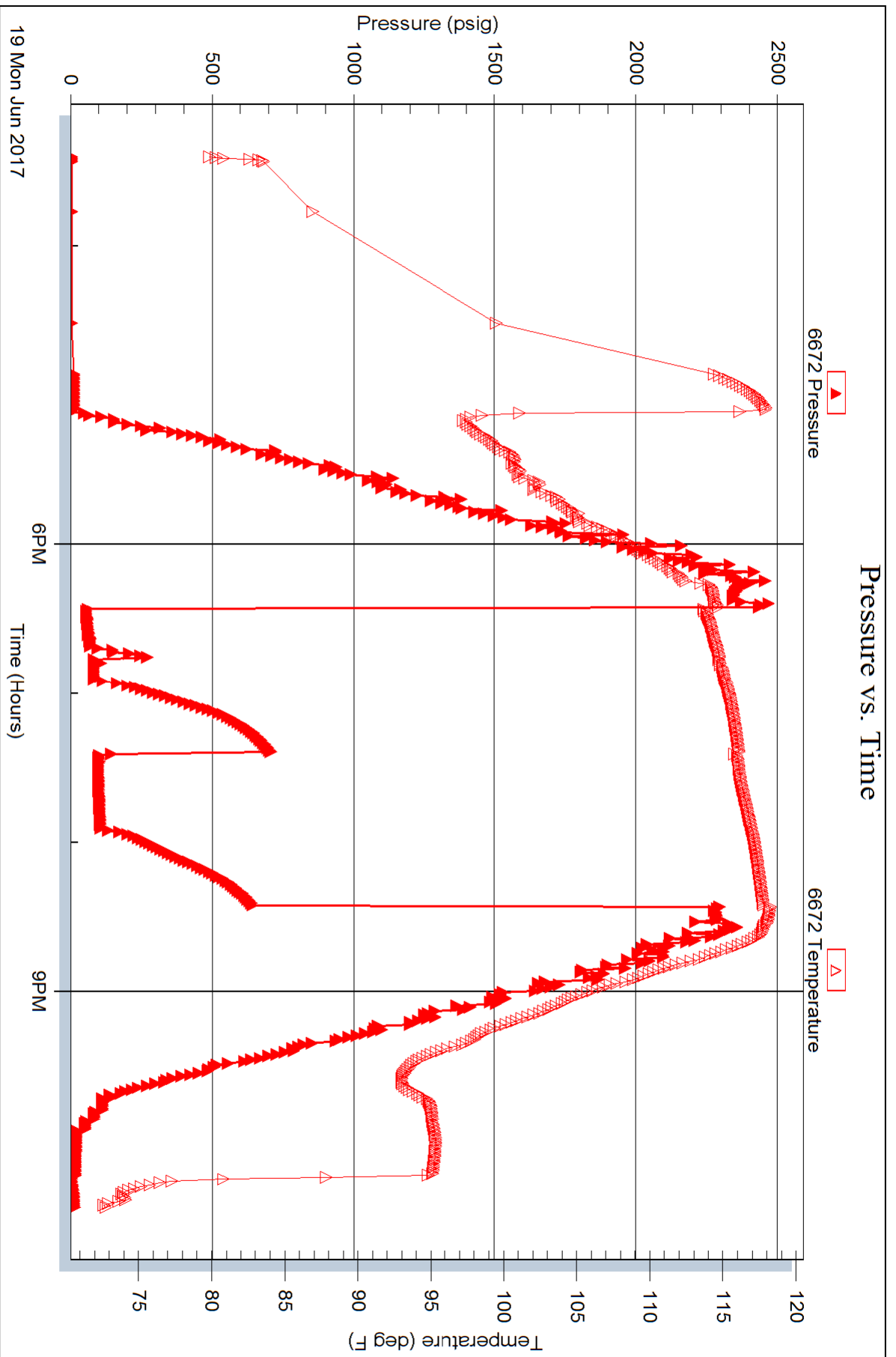
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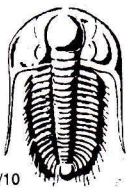
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.081@84F=60000ppm







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **59464**

4/10

Well Name & No. Cano 6-17 Test No. 1 Date 6-14-17  
 Company American Warrior, Inc. Elevation ~~3040~~ 3029 KB 3029 GL  
 Address 3118 Cummings Rd. P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke #17  
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Keowny State KS

Interval Tested 3636-3660 Zone Tested Toronto  
 Anchor Length 24' Drill Pipe Run 3440 Mud Wt. 9.4  
 Top Packer Depth 3631 Drill Collars Run 183 Vis 30  
 Bottom Packer Depth 3636 Wt. Pipe Run N.A. WL N/C  
 Total Depth 3660 Chlorides 2900 ppm System LCM 2#

Blow Description IF: BOB 1.5 min., strong steady blow  
ISI: No blow back  
FF: BOB 5 min., strong steady blow  
FST: N blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>930</u>	<u>gassy water</u>	<u>2</u>	<u>98</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

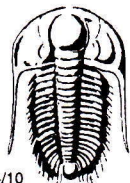
Rec Total 930 BHT 105 Gravity \_\_\_\_\_ API RW .124 @ 86 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 1716  Test 1050 T-On Location 0545  
 (B) First Initial Flow 50  Jars 250 T-Started 0645  
 (C) First Final Flow 297  Safety Joint 75 T-Open 0845  
 (D) Initial Shut-In 961  Circ Sub \_\_\_\_\_ T-Pulled 1130  
 (E) Second Initial Flow 348  Hourly Standby \_\_\_\_\_ T-Out 1400  
 (F) Second Final Flow 473  Mileage x120 90 Comments Bt on @ 0650  
 (G) Final Shut-In 961  Sampler \_\_\_\_\_ 8289, 6672  
 (H) Final Hydrostatic 1664  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1715  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1715

Approved By \_\_\_\_\_ Our Representative Chris Hegren

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **59465**

4/10

Well Name & No. Crano 6-17 Test No. 2 Date 6-15-17  
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke #17  
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Keary State KS

Interval Tested 3782-3812 Zone Tested Lansing D  
 Anchor Length 30' Drill Pipe Run 3576 Mud Wt. 8.9  
 Top Packer Depth 3797 Drill Collars Run 183 Vis 49  
 Bottom Packer Depth 3782 Wt. Pipe Run N.A. WL 7.2  
 Total Depth 3830 Chlorides 1350 ppm System LCM 1.5 #

Blow Description IF: 1.5 inches in 30 min, weak building blow  
TSI: No blow back  
FF: .5 inches in 30 min, weak surface blow  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>188</u>	<u>gassy watery muddy oil</u>	<u>5</u>	<u>45</u>	<u>20</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

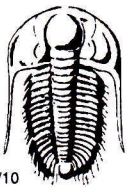
Rec Total 188 BHT 107 Gravity \_\_\_\_\_ API RW 213 @ 95 °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1805</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0600</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0700</u>
(C) First Final Flow <u>59</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0930</u>
(D) Initial Shut-In <u>1019</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1130</u>
(E) Second Initial Flow <u>96</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1330</u>
(F) Second Final Flow <u>96</u>	<input checked="" type="checkbox"/> Mileage <u>x 120</u> <u>90</u>	Comments <u>But on @ 0703</u>
(G) Final Shut-In <u>1012</u>	<input type="checkbox"/> Sampler _____	<u>8889,6672,6663</u>
(H) Final Hydrostatic <u>1754</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>2315</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2315</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **59466**

4/10

Well Name & No. Caro 6-17 Test No. 3 Date 6-15-17  
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke #7  
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4260-4288 Zone Tested Marmaton  
 Anchor Length 28' Drill Pipe Run 4054 Mud Wt. 9.25  
 Top Packer Depth 4255 Drill Collars Run 183 Vis 50  
 Bottom Packer Depth 4260 Wt. Pipe Run N.A. WL 8.4  
 Total Depth 4288 Chlorides 1350 ppm System LCM 2#

Blow Description IFI 4 inches in 45 min., fair building blow  
BSI: No blow back  
FFI: 5 inches in 45 min., weak surface blow  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>GIP</u>	<u>100</u>			
<u>183</u>	<u>oily watery mud</u>	<u>5</u>	<u>20</u>	<u>25</u>	<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

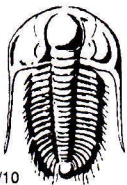
Rec Total 183 BHT 112 Gravity \_\_\_\_\_ API RW .468 @ 83 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic 2106  Test 1150 T-On Location 1730  
 (B) First Initial Flow 21  Jars 250 T-Started 1830  
 (C) First Final Flow 55  Safety Joint 75 T-Open 2035  
 (D) Initial Shut-In 761  Circ Sub \_\_\_\_\_ T-Pulled 2335  
 (E) Second Initial Flow 90  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 93  Mileage x 120 90 Comments Best on @ 1812  
 (G) Final Shut-In 728  Sampler \_\_\_\_\_ 8289, 6672  
 (H) Final Hydrostatic 2083  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1565  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1565

Approved By \_\_\_\_\_ Our Representative Chris Hegran

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59467

4/10

Well Name & No. Caro 617 Test No. 4 Date 6-19-17  
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke #17  
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4815-4965 Zone Tested St. Gen - St. Louis  
 Anchor Length 150 Drill Pipe Run 4624 Mud Wt. 9.4  
 Top Packer Depth 4810 Drill Collars Run 183 Vis 52  
 Bottom Packer Depth 4815 Wt. Pipe Run N.A. WL 9.2  
 Total Depth 4965 Chlorides ~~1500~~ 1400 ppm System LCM 3#

Blow Description IP: 2 inches in 30 min., weak surface blow  
ISB: No blow back  
FFI: Weak surface blow  
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>183</u>	<u>oil spotted muddy water</u>	<u>spot</u>	<u>40%</u>	<u>60%</u>	<u></u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 183 BHT 117 Gravity \_\_\_\_\_ API RW 1.081 @ 84 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic <u>2424</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1600</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1825</u>
(D) Initial Shut-In <u>710</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2025</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2230</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>x120</u> 90	Comments <u>Bot on @ 1524</u>
(G) Final Shut-In <u>645</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2316</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>1700</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>3.5d 3h</u>	Total <u>3265</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1565</u>	

Approved By \_\_\_\_\_ Our Representative Chris Heggen

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